

ATTORNEY DOCKET NO. 25006.0001U5
PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of

Paul M. Lizardi

Serial No.: Unassigned

Filed: Concurrently

For: "ROLLING CIRCLE REPLICATION
REPORTER SYSTEMS"

)
Group Art Unit: 1655

)
Examiner: Whisenant, E.

J1046 U.S. PTO
10/038718
01/02/02



INFORMATION DISCLOSURE STATEMENT

BOX PATENT APPLICATION
Commissioner for Patents
Washington, D.C. 20231

NEEDLE & ROSENBERG, P.C.
Suite 1200, The Candler Building
127 Peachtree Street, N.E.
Atlanta, Georgia 30303-1811

January 2, 2002

Sir:

Submitted herewith are two copies of form PTO 1449 which were filed in the parent application (Serial No. 09/644,723) with the parent application's docket number, serial number and filing date struck through and those of the present application written in. Each of the references listed on the forms PTO-1449 were either submitted to or cited by the Examiner and are of record in the parent application. Thus, copies are not provided.

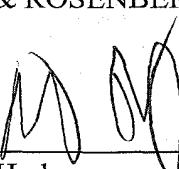
Consideration of the cited documents and making the same of record in the prosecution of the above-noted application are respectfully requested.

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SERIAL NO.: Unassigned

No fee is believed to be due. However, the Commissioner is hereby authorized to charge any additional fees which may be required, or to credit any overpayment, to Deposit Account No. 14-0629.

Respectfully submitted,

NEEDLE & ROSENBERG, P.C.

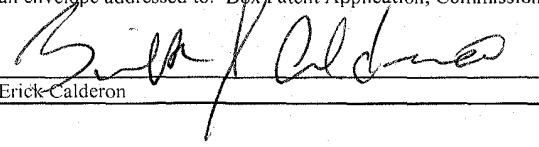


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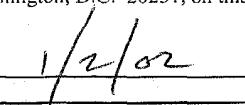
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Erick Calderon



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Substitute for form 1449A/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Application Number	09/844,723 Unassigned
Sheet	1	of	12	Filing Date	August 23, 2000 - Herewith
				First Named Inventor	Paul M. Lizardi
				Group Art Unit	
				Examiner Name	
				Attorney Docket Number	YU 115 CON 12T 25006.0001US

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	US Patent Document		Name of Patentee or Applicant of Cited Document	Date of Cited Document MM-DD-YYYY
		Number	Kind Code ² (if known)		
		4,883,750		Whiteley, et al.	11-28-1989
		4,965,188		Mullis et al.	10-23-1990
		4,994,373		Stavrianopoulos, et al	02-19-1991
		5,001,050		Blanco et al.	03-19-1991
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		5,242,794		Norman, et al.	09-07-1993
		5,328,824		Ward, et al.	07-12-1994
		5,354,668		Jeffrey I. Auerbach	10-11-1994
		5,409,818		Davey et al.	04-25-1995
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		5,714,320		Eric T. Kool	02-03-1998
		5,733,733		Jeffrey I. Auerbach	03-31-1998
		5,854,033		Lizardi	12-29-1998

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S. 18718
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10/02/01
10/01/02

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Foreign Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
		Office. ³	Number ⁴		
		WO	92/01813	Syngene, Inc.	02-16-1992
		WO	94/24312	Beckman Instruments, Inc.	10-27-1994
		WO	95/03432	Bio-Rad Laboratories, Inc.	02-02-1995
		WO	95/22623	Landegren, Ulf	12-24-1995

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		First Named Inventor	Paul M. Lizardi
		Group Art Unit	
		Examiner Name	
		Attorney Docket Number	YU-115-GON-(2) 25006.0001US
Sheet	2	of	12

U.S. PATENT DOCUMENTS

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Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office. ³	Number ⁴	Kind Code ⁵ (if known)				
		WO	95/35390		Mount Sanai School of Medicine of the City University of New York	12-28-1995		
		WO	97/20948		Hofman-Bang & Boutard, Lehmann & Ree	06-12-1997		
		WO	97/42346		Tepnel Medical Limited	11-13-1997		
		EP	0 128 332	A2	Enzo Biochem, Inc.	12-19-1984		
		EP	0 356 021	A2	Imperial Chemical Industries PLC	02-28-1990		
		EP	0 439 182	B1	Abbott Laboratories	07-31-1991		
		EP	0 505 012	A2	F. Hoffmann-La Roche, AG	09-23-1992		
		EP	0 667 393	A2	Enzo Diagnostics, Inc.	08-16-1995		
		JP	4262799		Toyobo Co. LTD.	09-18-1992		
		JP	4304900		Toyobo Co. LTD.	10-28-1992		
		AU	649066		Syngene, Inc.	05-12-1994		

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Application Number	09/644,723- <i>Unassigned</i>
Sheet	3	of	12	Filing Date	August 23, 2000 Herewith
				First Named Inventor	Paul M. Lizardi
				Group Art Unit	
				Examiner Name	
				Attorney Docket Number	YU 115 CON (2) 2500.0001 us

OTHER ART -- NON PATENT LITERATURE DOCUMENTS

Examiner's Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
		ABRAVAYA, et al., "Detection of point mutations with a modified ligase chain reaction (Gap-LCR)", <i>Nucleic Acids Res.</i> 23(4): 675-682 (1995).	
		ALIOTTA, et al., "Thermostable Bst DNA polymerase lacks a 3'-5' proofreading exonuclease activity," <i>Genet. Anal.</i> 12:185-195 (1996).	
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		ARNOLD, et al., "Assay Formats Involving Acridinium-Ester-Labeled DNA Probes", <i>Clin. Chem.</i> 35(8): 1588-1594 (1989).	
		BARANY, "Genetic disease detection and DNA amplification using cloned thermostable ligase", <i>Proc. Natl. Acad. Sci. USA</i> 88: 189-193 (1991).	
		BERTINA, et al., "Mutation in blood coagulation factor V associated with resistance to activated protein C", <i>Nature</i> 369: 64-67 (1994).	
		BIRKENMEYER & MUSHAHWAR, "DNA probe amplification methods", <i>Journal of Virological Methods</i> 35: 117-126 (1991).	
		BLANCO & SALAS, "Characterization and purification of a phage ø29-encoded DNA polymerase required for the initiation of replication", <i>Proc. Natl. Acad. Sci. USA</i> 81: 5325-5329 (1984).	
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		BLANCO, et al., "Terminal protein-primed DNA amplification", <i>Proc. Natl. Acad. Sci. USA</i> 91: 12198-12202 (1994).	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Application Number	09/644,723 <i>Unassigned</i>
Sheet	4	of	12	Filing Date	August 23, 2000 <i>Herewith</i>
				First Named Inventor	Paul M. Lizardi
				Group Art Unit	
				Examiner Name	
				Attorney Docket Number	YU 115 CON (2) 28006.0001US

OTHER ART -- NON PATENT LITERATURE DOCUMENTS

Examiner's Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
		BOEHMER & LEHMAN, "Herpes Simplex Virus Type 1 ICP8: Helix-Destabilizing Properties", <i>Journal of Virology</i> 67(2): 711-715 (1993).	
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		DAUBENDIEK, et al., "Generation of catalytic RNAs by rolling transcription of synthetic DNA nanocircles," <i>Nature Biotechnology</i> 15:273-277 (1997).	
		DAUBENDIEK, et al., "Rolling-Circle RNA Synthesis: Circular Oligonucleotides as Efficient Substrates for T7 RNA Polymerase," <i>J. Am. Chem Soc.</i> 117:7818-7819 (1995).	
		DAVANLOO, et al., "Cloning and expression of the gene for bacteriophage T7 RNA polymerase", <i>Proc. Natl. Acad. Sci. USA</i> 81: 2035-2039 (1984).	
		DYNAL, Technical Handbook, "Biomagnetic Techniques in Molecular Biology" (DYNAL A.S., 1995).	

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Sheet	5	of	12
		Attorney Docket Number	YU 115 CON (2) 2500L.0001US

OTHER ART -- NON PATENT LITERATURE DOCUMENTS

Examiner's Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
		ERNST, et al., "Cyanine dye labeling reagents for sulfhydryl groups" <i>Cytometry</i> 10:3-10 (1989).	
		FIRE & XU, "Rolling replication of short DNA circles", <i>Proc. Natl. Acad. Sci. USA</i> 92: 4641-4645 (1995).	
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-		HAGIWARA, et al., "Quantitation of hepatitis C Virus RNA in Serum of Asymptomatic Blood Donors and Patients with Type C Chronic Liver Disease", <i>Hepatology</i> 17(4): 545-550 (1993).	

Examiner's Signature	Date Considered
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Sheet	6	of	12	Filing Date	August 23, 2000 <i>Henzelith</i>
				First Named Inventor	Paul M. Lizardi
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OTHER ART -- NON PATENT LITERATURE DOCUMENTS

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		HANVEY, et al., "Antisense and Antigene Properties of Peptide Nucleic Acids", <i>Science</i> 258: 1481-1485 (1992).	
		HATA, et al., "Structure of the Human Ornithine Transcarbamylase Gene", <i>J. Biochem.</i> 103: 302-308 (1988).	
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		KABOORD & BENKOVIC, "Accessory proteins function as matchmakers in the assembly of the T4 DNA polymerase holoenzyme", <i>Current Biology</i> 5: 149-157 (1995).	
		KÄLIN, et al., "Evaluation of the ligase chain reaction (LCR) for the detection of point mutations", <i>Mutation Research</i> 283(2): 119-123 (1992).	
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Application Number	09/644,723- <i>Unassigned</i>
Sheet	8	of	12	Filing Date	August 23, 2000- <i>Nucor with</i>
				First Named Inventor	Paul M. Lizardi
				Group Art Unit	
				Examiner Name	
				Attorney Docket Number	YU 115 CON (2) 25006.0001 US

OTHER ART -- NON PATENT LITERATURE DOCUMENTS

Examiner's Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
		LAMTURE, et al., "Direct detection of nucleic acid hybridization on the surface of a charge coupled device" <i>Nucleic Acids Research</i> 22(11): 2121-2125 (1994).	
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		LOCKHART, et al., "Expression monitoring by hybridization to high-density oligonucleotide arrays," <i>Nature Biotechnology</i> 14:1675-1680 (1996).	
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Filing Date	August 23, 2000 <i>Herewith</i>		
First Named Inventor	Paul M. Lizardi		
Group Art Unit			
Examiner Name			
Sheet	9	of	12
		Attorney Docket Number	YU 115 CON (2) 25006.000145

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		LUKYANOV, et al., "Molecule by molecule PCR amplification of complex DNA mixtures for direct sequencing: an approach to in vitro cloning," <i>Nucleic Acids Research</i> 20:1691-1696 (1996).	
		LUO, et al., "Improving the fidelity of <i>Thermus thermophilus</i> DNA ligase," <i>Nucl. Acids Res.</i> 24:3071-3078 (1996).	
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Filing Date	August 23, 2000	First Named Inventor	Herwirth
Group Art Unit		Paul M. Lizardi	
Examiner Name			
Sheet	10	of	12
		Attorney Docket Number	YU 115 CON (2)-25006.000145

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Filing Date	August 23, 2000	First Named Inventor	Paul M. Lizardi
Group Art Unit		Examiner Name	
Sheet	11	of	12
Attorney Docket Number	YU-115-CON (2) 25006.000145		

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Filing Date	August 23, 2000			First Named Inventor	Paul M. Lizardi
Group Art Unit				Examiner Name	
Sheet	12	of	12	Attorney Docket Number	YU 115 CON (2) 25006.000145

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		SAKSELA, et al., "Human immunodeficiency virus type 1 mRNA expression in peripheral blood cells predicts disease progression independently of the numbers of CD4 ⁺ lymphocytes", <i>Proc. Natl. Acad. Sci. USA</i> 91(3): 1104-1108 (1994).	
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